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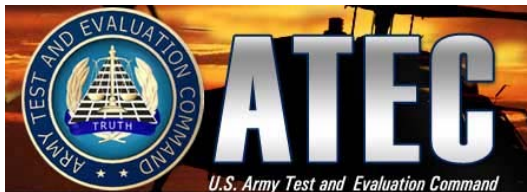
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Innovative T&E That Balances Risk with Resources for Future Army Training

Presented by

**U.S. Army Test &
Evaluation Command**



PEO STRI



National Simulation Center



73rd MORSS June 21-23, 2005

What is the ACTF?



The Army Constructive Training Federation (ACTF) is a collection of Simulations, Sim/C4I interfaces and tools which provide post exercise drivers designed for training land component commanders and their staffs

It provides a simulated operational environment, in which computer-generated forces stimulate and respond to the command and control processes of the training audience

Organizational Responsibilities



- **Users / NSC – Defines requirements and validates that the system meets the Army's Title X training needs**
- **Material Developer / PEO STRI – develops the system based on User's requirements**
- **Testers/ATEC - provides system assessment of operational readiness**

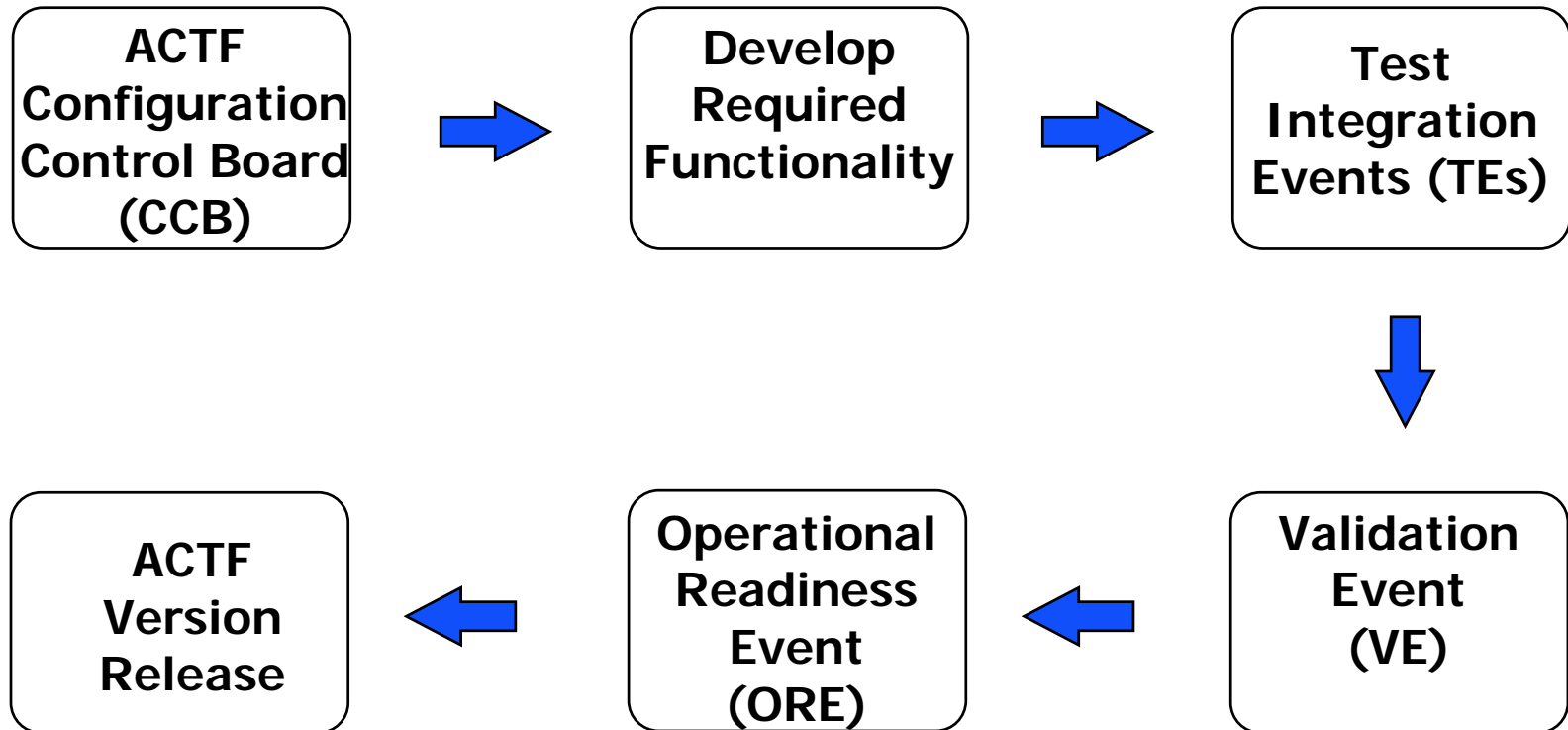
Necessity for a New T&E Process



Need for:

- **Flexibility to handle emerging requirements**
- **Rapid fielding of ACTF versions**
- **Minimizing test resources and test events**
- **Measuring operational effectiveness without a “traditional” Operational Test**
- **Meeting an Army at War’s training needs**

Components of the T&E Strategy



Developing the Requirements



- **WARSIM ORD is the overarching document**
- **ACTF CPD produced every three years**
- **Yearly CCB to identify and prioritize requirements for annual builds**
 - **Develop version plan and schedule**
 - **Develop testing and fielding plan**
 - **Conflicts are resolved by DA**

Integrating & Verifying Requirements



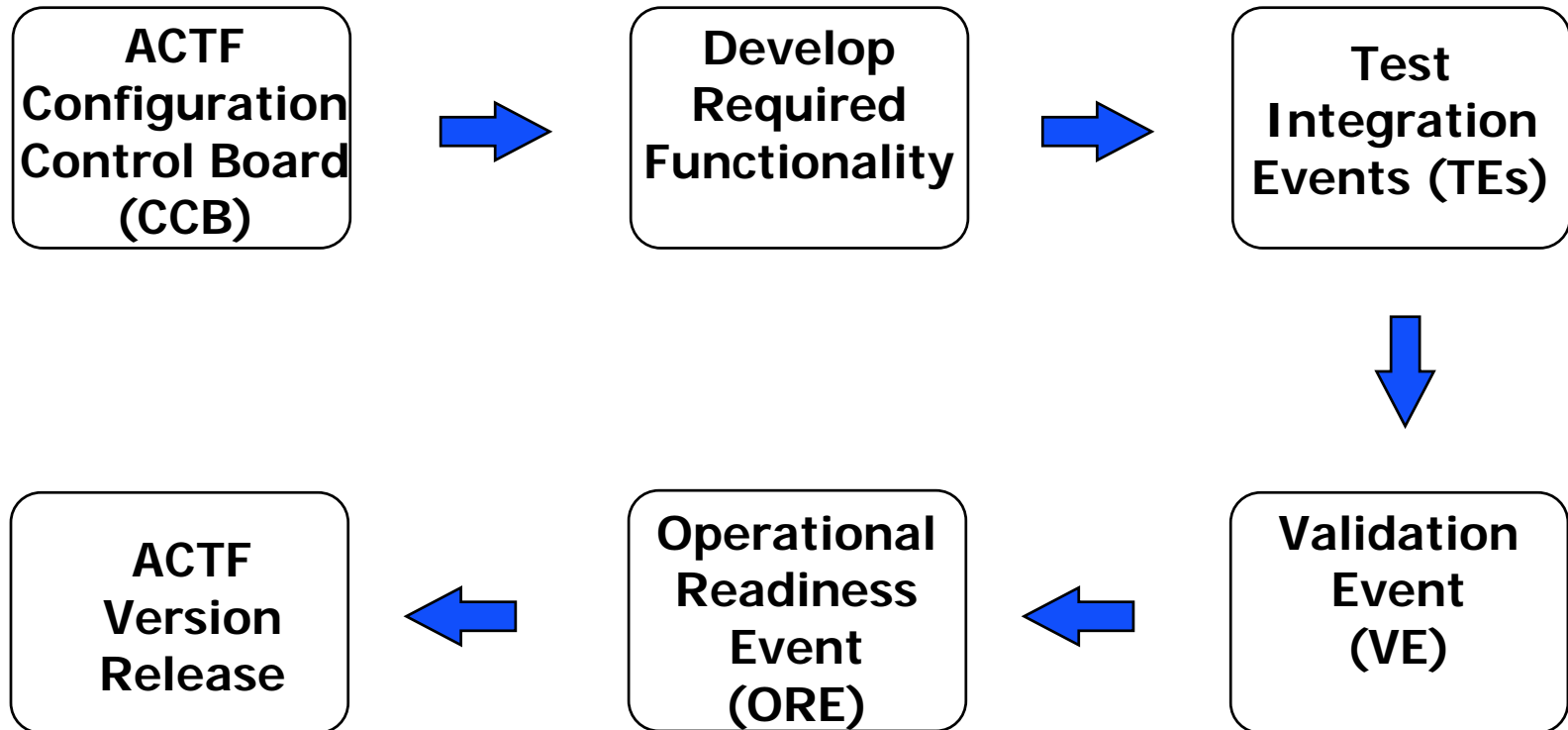
- **TEs integrate and verify new functionality into the ACTF**
- **VEs evaluate whether the ACTF is functionally valid within a federation of simulations, interfaces and tools fully capable of supporting battle command and institutional training for the BCT, UE(x), and UE(y) levels**
- **OREs evaluate whether the ACTF meets the capabilities and operational criteria to support battle command and institutional training for the Army at the BCT, UE(x), and UE(y) levels**

Assessing the System



- **Provide an annual independent System Assessment (SA) to support each materiel release decision**
- **Produce a final System Evaluation Report (SER) to support a decision on the ACTF objective system**
- **Leverage existing developer and user events to support the SAs and SER per the TESP**

Components of the T&E Strategy



The ACTF T&E IPT supports the T&E process from development thru the fielding of each version release

Reducing Test Costs & Improving Test Efficiency



- **Minimizes testing by leveraging existing developer and user events**
- **Shared resources and facilities between the tester, developer and user**
- **Operational test is not feasible due to limited resources and availability of troops**

Summary



This T&E strategy, as applied to the ACTF:

- **Serves as a model process to be employed in the evaluation of future simulations developed for Army training**
- **Has combined traditionally separate testing into single integrated test events between the user, developer and tester**
- **Reduces time and resources to get a product to the soldier without compromising any of the traditional and sequential steps for review**

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Questions?

